| | | | Personal Pe | | | | |
|-------------|--|--|--|--|--|-------------------------------------|--|
| Ple | UNIFORM HAZARDOUS WASTE MANIFEST | 2-pitch) typewriter.) 1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 | Manifest Document No. | 2. Page 1 | | the shaded areas by Federal law. | |
| | 3. Generator's Name and Mailing Address ALASKAN COPPER WORKS P.O. Box 3546, Seattle, 4. Generator's Phone (206) 382-6 5. Transporter 1 Company Name 7. Transporter 2 Company Name | 6. US EPA I | D Number | B. State Ge | nsporter's ID ter's Phone (40 Insporter's ID | | |
| | 9. Designated Facility Name and Site Address World . Resources Company 8113 West Sherman Street Phoenix, Arizona 85043 | ss 10. USEPAI | 7 3 5 5 0 C | G. State Fa | Phone | 72-1955 | |
| GE | 11. US DOT Description (Including Proper Sh | ipping Name, Hazard Class and ID Nu | mber) 12. Conta | T | 13. 14. otal Unit antity Wt/Vol | Waste No. | |
| NERA | RQ, Hazardous wast (F006), 9, NA3077, | | Ø. 74.2 | CF | 2.5.3 P | P006 | |
| T O R | b. | | | | | | |
| | C | | | | | | |
| | d | | en var en | and the same of th | uskings active execution | | |
| | J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above K. Handling Codes for Wastes Listed Above 15. Special Handling Instructions and Additional Information 24 Hour Emergencey Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORR") Wear gloves & goggles | | | | | | |
| | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and | | | | | | |
| | future threat to human health and the environm the best waste management method that is availated. Printed/Typed Name | nent; OR, if I am a small quantity generator | | | inimize my waste ge | | |
| TRANSPORTER | 17. Transporter 1 Acknowledgement of Rec | Signature | er, Roy | e, Rel. | | Month Day Year | |
| RTER | Printed/Typed Name | Signature | | | ^ | Month Day Year | |
| - | 19. Discrepancy Indication Space | | · . | | | | |

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Signature

Style CF 17 LABELMASTER, AN AMERICAN LABELMARK CO., CHICAGO, IL 60646 (800)621-5808

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete



Printed/Typed Name

GENERATOR COPY

Month Day

Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company 8113 West Sherman Street

Phoenix, Arizona 85043 Tele: 1-602-233-9166 Fax: 602-936-9164

Issued: 8/7/90 Revised: 9/15/93 - DLS

Call CHEMTREC only in the event of emergencies during shipping that Involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in the US or Canada, Day or Night, Call: CHEMTREC 800-424-9300 (Use Chemtrec Company Code "WORR") For calls from other countries call:

202-483-7616 Collect

Section 1

PRODUCT - MATERIAL IDENTIFICATION

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006) Environmental Protection Agency (EPA) Waste Classification: F006

Chemical Family: Metallic (Hydroxide) Precipitates Synonym: Non-ferrous Metal Hydroxide Filter Cake DOT Hazard Class: 9 Packaging Group III

DOT Identification Number: NA 3077 **DOT Emergency Response Guide 31 Applies**

Section 2

HAZARDOUS INGREDIE

| | | | WEST TO SO THE MEDIEN 12 | | | |
|--------------------|-------------|------------|------------------------------|-------------------------|--|--|
| Ingredient: | CAS Number: | Content %: | ACGIH-TLV | Toxicology: (rat, oral) | | |
| Copper Hydroxide | 20427-59-2 | 0-30 | 1.0 mg/mg (Dust) | LD-50 1,000 mg/kg | | |
| Nickel Hydroxide | 12054-48-7 | 0-15 | 1.0 mg/mg (Dust) | LD-50 1,500 mg/kg | | |
| Calcium Hydroxide | 1305-62-0 | 0-15 | 5.0 mg/m3 (Dust) | LD-50 7,340 mg/kg | | |
| Diatomaceous Earth | 68855-54-9 | 0-10 | 6.0 mg/m ₃ (Dust) | LD-50 3,160 mg/kg | | |

Section 3

PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,

Gray/Green to Brown, Water Content 30-80%

Specific Gravity: 1 to 1.4 Solubility: Insoluble in water

Density: 64 to 90 lbs/cu/ft incompatible Reactivity: None Known

The State of the Control of State of the Sta

Vapor Pressure: Insignificant Stability: Avoid contact with acids Polymerization: Will not occur

Boiling Point: Above 2600°C Melting Point: Above 1800°C

pH: 7.0 to 10.0 Odor: Nil

Section 4

FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable Oxidation: Non-oxidizing Special Firefighting Procedures: None Product Decomposition. (Due to Fire or Explosion): None

Explosive: Non-explosive

NFPA Fire Diamond



TOXICITY

Section 5

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

Section 6

HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconcious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician,

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anema, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

Section 7

PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

Section 8

CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required. Other Protective Equipment: Coveralls are recommended, but not required. Eye Protection: Safety Glasses recommended. Rand Protection: Gioves recommended.

GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or respinsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 48004
ALASKAN COPPER WORKS 628 sixth ave south

Surature:

Company Name and Address: 34

AZF-WRC even

NOTICE

TO: World Resource Company

8112 West Sherman Street Phoenix, Arizona 85043

From: Alaskan Copper Works

628 South Hanford Street Seattle, Washington 98134

SUBJECT: Land Disposal Restriction Notice

| Manifest Number: | 98004 | |
|-------------------|--------|--|
| Date of Shipment: | 6-2-98 | |

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

| EPA Material | Regulated | Subcategory | Treatability | .Treatment Standards | |
|--------------|-------------|-------------|---------------|--------------------------------|-------------------|
| Number | Constituent | | Group | CFR Reference | Prohibition Level |
| F006 | N/A | N/A | Nonwastewater | 40 CFR 268.41 40 CFR 268.43 | ****** |
| | | | | | |
| | | | | | |

By: Gerald A. Thompson
Alaskan Copper Environmental Assistant

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME: Hazardous waste, solid, n.o.s., (F006)

1996 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

HARRION COOK SHIP TO KTE SOLUD MORT MEDIANT XIOOEEGUD ERNOCESTRIVE MANDINESMAN XIOOEEGUD REMINES COOKES PROBLEMINES COOKES PROBLEMINES OF THE MANDING COOKES PROBLEMINES OF THE PROBLEMINES OF THE MANDING COOKES PROBLEMINES OF THE PROBLEMINE

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- · Some may burn, but none ignite readily.
- · Some may polymerize (P) explosively when heated or involved in a fire.
- · Containers may explode when heated.
- Some may be transported hot.

HEALTH

- · Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- · Fire may produce irritating, corrosive and/or toxic gases.
- · Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WORR")
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1.2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

Dry chemical, CO₂, water spray or regular foam.

Large Fires:

- · Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

Fire Involving Tanks:

- · Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

- . Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

Small Dry Spills

• With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
 Large Spills
- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

- · Move victim to fresh air.
- · Call emergency medical care.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- · Remove and isolate contaminated clothing and shoes.
- . In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

AZF WRC 9/18/96